محافظة الجيزة

جدول الحصص

	الأولى	الثانية	الثالثة	الرابعة	الخامسة	السادسة	السابعة	الثامنة
الأحد								
الاثنين								
الثلاثاء								
الأربعاء								
الخميس								

توقيع المدرس
يعتمد مدير المدرسة



First stage Secondary

First Term

Distribution curriculum of computer and information technology

For First-grade of general secondary

For the scholastic year 2014 / 2015

First Semester

Week No.	Subjects
1	**Atlas Arabian Electronic Project:** • Entrance to the project • Download the e-book to learn about the new work environment. • Prelude to the work of any project using the technological tools available. • Multimedia
2	**Stages of the problem solving** • Training
3	**Analysis of interface software** • (tools used to control the type of data) • Solve the questions (Atlas Arabian Electronic Project)
4	**Operating system and the internet** • Dealing with files and folders • Creating project folders • Searching via the internet Searching engines
5	• Download the files (audio a video , Inage) • Electronic encyclopedias • Solving the questions (Operating system and the internet

6	**Collecting Data of project :** • Concepts of electronic table • The concept of the database • Create a new workbook • Entering data into the work sheet workbook • Renaming the work sheet • Saving the new work book • Solving the questions (Collecting Data of project)

Week No.	Subjects
7	**Image processing** • Concept of spreadsheet • Recognizing some processing software images • Various types of image files • Downloading the image file from the internet • Image processing • Save the image file using various extensions
8	**"Design of Still images and Animation** • background images for software project • Design still image • Concept animated images • Designing animated images • Solving the questions of the third lesson • Solving questions of (Image processing)
9	**Creating and addressing audio file** • Types of audio files extensions. • Some audio processing software • Downloading programs of creating audio file • Recording audio commentary
10	**Modification in audio** • Adding Effects to an audio • Storing sound inside the suitable file extension • Solve the question and create processing file sound
11	**Create and addressing video files :** • Type of video files

	• Processing software video files • Downloading editing software and Processing video files • from the internet • Dealing with one of the programs available to • manipulate video

Week No.	Subjects
12	**<u>Creating video clips inside software and process</u>** video files and handling adding or deleting Saving the video snapshots inside file suitable extension Solving the question (Create and processing video files)
13	**<u>Preparation of the project and setting the interface properties</u>** Defining at the properties of the form and some control tools of windows in terms of the properties (Label, Button, combo box , picture box,) Possibility of adding a new tool to control the tool box
14	**<u>preparing of the project and setting the interface properties</u>** • Solve question
15	• Review on the forgoing study and assessing students
16	• Review on the forgoing study and assessing students

Distribution curriculum of computer and information technology
For First-grade of general secondary
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Second Semester

Week No.	Subjects
1	Reading the datasheet Excel using VB.Net Some of the terminology (ADO.net , select) Handle with sentence select Example on sentence select
2	Training (Reading the datasheet Excel using VB.Net)
3	Follow Training (Reading the datasheet Excel using VB.Net)
4	Creating private function to read the data sheet excel
5	Writing the code required to fill tool (combo box) of the continents Solving questions (read the data sheet excel.....)
6	writing code project Writing the code required to display the state data using tool (label) . Solving questions (writing code project)
7	Adding map and flag of the state to program the Arabic Electronic Project Atlas : Write the code required to display the flag of the state and its map using the tool (picture box)
8	Training to display images using the tool (picture box)

Week No.	Subjects
9	Add voice of anthem the national to program the Arabic Electronic Project Atlas Writing the code required to run an audio file of the state national anthem. Writing the code required to start or stop the audio file of the state national anthem.
10	Training to insert an audio file and run it .
11	Adding video of tourist attractions to program the Arabic Electronic Project Atlas Writing the code required to run the video file of tourist attractions state
12	Training to insert the video file and run it.
13	Review on the foregoing study and assessing students
14	Review on the foregoing study and assessing students

Subject

Date

Chapter one (1)
Entrance to the project

Objectives

By the end of this chapter student will be able to :

1 – Know kinds of multimedia

2 – Create a new project

3 -Understand the useful of Atlas

The necessary software to determine the project

1-Multimedia software

Introduce

Using Arabian Atlas :

Use to compare between states and continent according to Area, Population, Terrain, Temperature ,Atmospheric pressure and Wind

Data Types:

1-**Text**: ex (data for each stat, ports or capital)

2-**Graphical**, Fixed, and animated photos: ex (Flags of states)

3-**Audio**: ex (National peace, Voice over).

1-text 2-image or picture 3-sound 4-video clip

B-Hardware

1-scanner 2- digital camera

C-Software:

1-movie maker 2-sound recorder 3-windows media play



توقيع المدرس : .....

Rating

What are the elements of Multimedia?

Subject

Date

Chapter one (2)
Problem Solving stages

Objectives

By the end of this chapter student will be able to :

1 – Know the problem solving

2 – Determine the problem solving stages

3 -Understand the importance of problem steps

1-Algorithm (develop a plan solution)

A set of successive steps



Introduce



Problem solving stage

1-Problem definition:

It has the identification of required out puts and available inputs.

2-Determine outputs:

Information or results that may be obtained after solving the problem.

IT can do the following .....

A) Writing objective of the program

3-Determine inputs:

Available data that may be obtained from books or internet.

B) The name of the program

C) Data created

D) The software version number

Rating

What are the kinds of documentation?



توقيع المدرس : .....

Subject

Date

Chapter one (3)
Analysis of
interface software

Objectives

By the end of this chapter student will be able to :

1 – Know the interface of the program

2 – Determine the required data

3 -Understand the importance of problem steps

Strategies	Co-operative learning - Discussion
Methods	Computer Program White Board Scholar book

Introduce

The interface of the program

Rating

What are the kinds of required data for atlas?

Subject

Chapter two (4)
Operating system and Internet

Introduce

and internet

t manages the files and folder stored in unites o

Objectives

O.S to manage files and folders)

1-Create (folder – file)

Right click on desktop , from menu ,select new then folder.

2-delete (folder – file)

Active the folder ,right click on the folder ,from ***menu select delete .***

3 ***ile)***

click on the folder

rename

Introduce

Search on the internet

It is used to search for all types of information (TEXT, NUMERIC, SOUND,PICTURE) and it is used to search for information by using (Key words)

There are a lot web site that introduce search service and it called (Search Engines

Types of search engines

1) www.Google.com
2) www.Yahoo.com
.....
-We We can use them to search for information and save or copy and paste in any document on computer.

Example for search engine :

1) Searcha suitablesearch engine
2) Select Keyword ex: (Egypt map)
3) Determine type of information (Picture or *map)*
4) Save the map as a picture in a folder that created

Rating

What are the most important of search engine

توقيع المدرس : .....



Subject

Date

Chapter two (5)
Search inside electronic encyclopedias

Objectives

By the end of this chapter student will be able to :

Introduce

Search inside electronic encyclopedias

Encyclopedia

Summarizing the organizer of human knowledge in every specialty in special area and it organized as alphabetical order.

Importance of encyclopedia

a) It helps in searching by articles, tables, and pictures are found easily.

b) It helps in quick search

Introduce

Types of encyclopedia

A) Wikipedia.
B) Marfa.
c) Arabic encyclopedia.

Methods of organization and rearrange information that included in encyclopedia:

1) Re-arrange as alphabetical order
2) Re-arrange as scientific classing

Rating

What are the purposes for using encyclopedia

..... توقيع المدرس :



Subject

Date

Chapter Three (6)

Data collection project using spread sheets

Objectives

By the end of this chapter student will be able to :

1 – Remember the concepts of electronic tables

2 – Create a new spreadsheet

3 - Understand the importance of excel

Strategies

Co-operative learning - Discussion

Introduce

Data collection project using spread sheets

What is spreadsheet?

I ontains worksheets c intersection of colu produces cell

The title of a column is alphabet (A,B,C,….)

The title of row is numbers (1,2,3,4…..)

Introduce

Why can we use spreadsheet?

Because it deals with big numbers of data easily and it has extra speed through worksheet.

Types of data that cells contain:

-Text
-Number
-Formulas

What is database?

It is collection of information that is organized, so that it can easily be accessed and updated.

What is software that can be used to create database?

The programs that included in Microsoft office such as Word,Excel,Access.

What is Data table (Database) consisting of?

* A group of columns and row.
* columns represents (field)
* row represents (Record)

Rating

We can enter data inside cell as picture, sound, video?. (False)

توقيع المدرس : .....



Subject

Date

Chapter Four (7)

Image

Introduce

Types of processing pictures :

1) Vector :

It is one of diagrams that showed as a result of processing a mathematical processing.

It doesn't change the image resolution when maximized or minimized.

*Examples: Such as (eps,emf,wmf)

2) Raster:

The image in it composed of pixels .

It changes the image resolution when maximized or minimized.

It characterized by big size.

*Examples: Such as (gif,tiff,bmp,raw)

What is raster consisting of?

Fixed pictures

Animated pictures

(Characteristics of some kinds of pictures)

3) Raw:

It doesn't support the movement and transparency

It is better than (jpg) .

4) Gif:

It supports the movement and transparency.

it is not better in saving the image of many colors.

5) Bmp:

one of fixed pictures files.

It is better than (gif).

Introduce

4) Jpeg:

It is the most popular type.

It doesn’t support the movement and transparency.

It has 16 million colors.

5) Png :

It supports transparency, It doesn't support movement.

It has 1 million colors.

Advised for images with background transparent.

6) wmf :

It supports transparency

It doesn’t support movement.

Used in processing mathematical process.

It characterized by small size

Introduce

important notes

All kind of pictures are fixed except for (gif) it may be fixed or animated.

There are some kinds of pictures that we can use in VB.NET suchas (wmf,png,gif,jpg,bmp)

Picture file (bmp) can be used by almost operating system



What are the differences between kinds of extensions

Subject				
Date				

Chapter Five (8)
Design still and moving images

Objectives

By the end of this chapter student will be able to :

1 – Explains the meaning of the word image

2 – Design animated picture

3 - Valuing programs and their potential

Strategies	Co-operative learning - Discussion
Methods	Computer Program White Board Scholar book

Introduce

Design image as a background for a software project

When preparing the project , such as the Atlas of the Arab must make housing a unique specific to each individually designed to identify and clarify personal stylist

The design of a static image

Rating

Mention steps design a static image

2 - Use the
3 - Assume that the dimensions of the front 800 × 600 pixels
4 - Adjust the work area through the resize tool
5 - Use of color in packaging
6 - Use of forms and fees

Subject

Date

Chapter six (9)
Creating and addressing audio file

Objectives

By the end of this chapter student will be able to :

Typ

Introduce

Mp3

The quality of this kind of purity in which less if compared with a compressed wav type size, not fit for recording raw or initial production , and the software supports most of the audio edit and modify

Wma

This type higher quality and less distortions of mp3 and systems of this type is supported by some operating systems And treatment programs votes .
Where this short extension (Windows Media Audio)

Audio processing software

Are those programs that enable the user to create, modify and processing audio files of the means and the influences that help the user , through the containment of the many tools in the editing and processing of audio files in a distinct manner , quick and easy .

(Audacity) (O/S Windows- Linux)
http://audacity.sourceforge.net/
(WavePad) (O/S Android)

Steps voice recording Comment

- Make sure the microphone Mic connect to your computer
- Select Start , then Accessories - download audio recording Sound Recorder
- Log sentences required

Rating

The type size slimmer than wav mp3( )



The signing of a teacher :

Subject

Date

Chapter six (10)
Creating and addressing audio file

Objectives

By the end of this chapter student will be able to :

1 - Modifies the audio clips
2 - put effects on sound clips
3 - the sound is stored within a file extension appropriate
4 - appreciate the importance of sound recordings

ɔ-operative learning	
Methods	Computer Program White Board Scholar book

Introduce

Through audio processing appropriate treatment can sound like the work of the program : -

- Delete the part of the sound.
- Cut part of the audio and paste it in another part of the same file or in another audio file .
- Repetition of the sound clip . -
- amplify or reduce the sound .

Rating

You can use a photo processing software to delete part of the audio ( )

Subject

Date

Chapter seven (11)
Creating and addressing audio file

Objectives

By the end of this chapter student will be able to :

1 - Learn about some types of video files .
2 - Some treatment programs recognize video files .
3 - down one editing software and processing of video files from the Internet.
4 - carries editing software and video processing files on your computer .
5 - appreciate the importance of video programs in the study

ɔ-operative learning

Introduce

Video processing software

Are those programs that enable the user to create and edit

Introduce

There are many types (extensions) video files , including : avi, wmv, gp, mp4

Type)gp(
You cannot imaging it all sizes and the size of the file, and small , and the image quality is low

Type)Mp4(
In this type can imaging of different sizes , where the average file size , and the clarity of the image which is excellent.

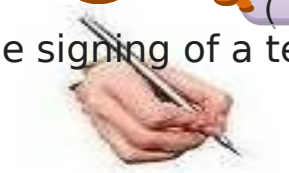
Some programs may enable you to convert one type to another. Also you can find one program through which you can run and video files, sounds and images

results of which its loaded by the operating system
Track landing - Open the program choices

Rating

Enabled the use of the Internet and mobile phones in the compilation of videos benefit from them in work projects . ( )

The signing of a teacher :



Subject

Date

Chapter seven (12)
Creating and addressing audio file

Objectives

By the end of this chapter student will be able to :

1 - Creates video footage inside the editing software and video processing files.
2 - Deals with video clips in addition or deletion.
3 - Adds a transition animation effects between video clips.
4 - Saves the video clips within the appropriate file extension.
5 - Appreciate the importance of the study of video programs in the school of life

the school of life

2 - To put the effect on the transitions between shots Choose a influences then placed between the video footage on the tape Time line

Introduce

First, import photos pictures files

Imported image files to the most important tourist attractions in Egypt pictures from inside a folder within a folder Atlas

Rating

Remember four purposes which uses a video editing program

The signing of a teacher :



Chapter eight (13)
Prepare and adjust the interface characteristics of the project

Objectives

By the end of this chapter student will be able to :

1 - Defines the goal of the design and construction of the project.
2 - Designed user interface with the project .
3 - Sets the controls in the user interface window

program through the following actions : Open the Visual
ble on your device
ıtrols Control Tools
under the name Atlas as shown in
Figure follows

We find that we have put 2 ComboBox tool and Title 10 Label

Introduce

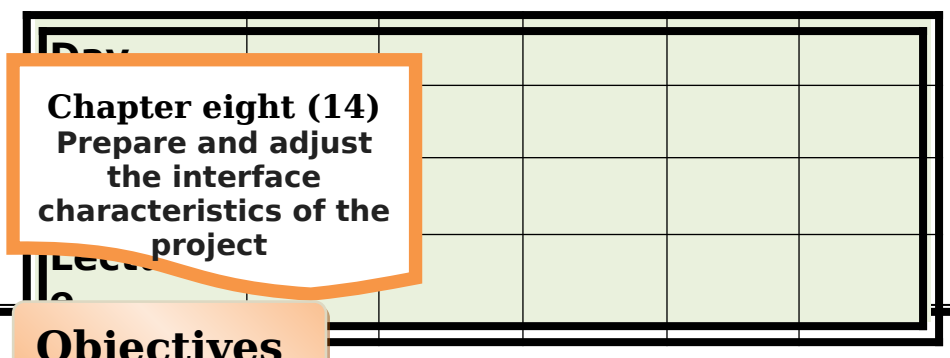
We have Been prepared folders contain all the necessary elements in the preparation of the Arab e-Atlas project consisted folders comes with : •

1 - The project , which includes the contents of all the project files and folders under the name Atlas Folder
2 - Database folder that contains data stores its states Excel file
3 - Flags folder stores its flags of States .
4 - Maps folder stores its maps states.
5 - Anthem folder stores its national anthem of each country.
6 - Videos folder stores your sights video files.

you studied in the previous year using the programming language Visual Basic Dot Net , which draw upon in building the Arab Atlas program and you can use it to create and interface design program

Rating

The most appropriate control tools that can be used to display a list of the names are :
1 - .PictureBox2 - Button3 - .ComboBox. 4 - Label



Chapter eight (14)
Prepare and adjust the interface characteristics of the project

Objectives

By the end of this chapter student will be able to :

1 - Adjusts controls properties.

2 - Adds control to the toolbox tool (.Toolbox)

3 - Appreciate the importance of controls in the user interface window

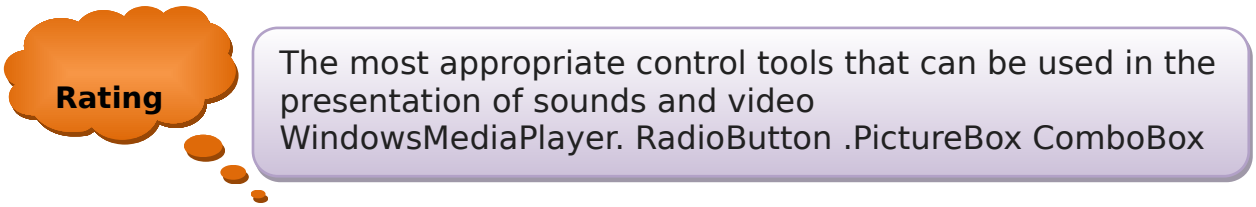
ɔ-operative learning

Introduce

Adjust the characteristics of the control tools such as :

Introduce

Adjust the model window properties form1 and Tools Control controls on it as shown in the following


Rating
The most appropriate control tools that can be used in the presentation of sounds and video WindowsMediaPlayer. RadioButton .PictureBox ComboBox